

In the Specification:

Replace the Sequence Listing with the enclosed, revised Sequence Listing.

Replace Table 10 beginning at page 171, with the following table:

**Variance Table**

Hugo	GID	OMIM ID	VGX Symbol	Description
Variance	Start	Variance		
U73338	U73338	156570	GEN-69	Methionine
Synthase ( <del>SEQ ID NO:1</del> )				
	194	(-201)C>G		5'
	284	(-111)C>T		5'
	1136	742G>A	V248M	
	1252	858C>T	Silent	
	1334	940G>A	D314N	
	1699	1305T>C	Silent	
	3150	2756A>G	D919G	
	3207	2813G>T	S938I	
	3209	2815G>C	G939R	
	5444	5050C>A		3'
	5551	5157G>A		3'
	5573	5179C>T		3'
	5659	5265T>C		3'
	5678	5284T>C		3'
	5874	5480C>T		3'
	5934	5540A>G		3'
D78586	D78586	114010	GEN-BR	CAD PROTEIN ( <del>SEQ</del>
ID NO:2)				
	3434	3408C>T	Silent	
	4313	4287T>C	Silent	
	4799	4773A>G	Silent	
	5255	5229C>T	Silent	
	5455	5429G>A	R1810Q	
	5507	5481T>C	Silent	
	5810	5784C>T	Silent	
	6128	6102C>T	Silent	
	6626	6600C>T	Silent	
	6686	6660C>T	Silent	
U09178	U09178	274270	GEN-HA	
Dihydropyrimidine Dehydrogenase ( <del>SEQ ID NO:3</del> )				
	166	85T>C		C29R

577	496A>G	M166V
638	557A>G	Y186C
1708	1627A>G	I543V
3432	3351T>C	3'
3682	3601C>T	3'
3730	3649G>A	3'
3925	3844A>G	3'
3937	3856T>C	3'
U19720	U19720	600424
Transporter (SLC19A1)	<del>(SEQ ID NO:4)</del>	GEN-I1
175	80G>A	R27H
341	246C>G	Silent
791	696C>T	Silent
1067	972G>A	Silent
1337	1242C>A	Silent
1997	1902T>C	3'
2100	2005^2006insG	3'
2582	2487T>G	3'
2617	2522C>T	3'
2652	2557T>C	3'
U92868	U92868	600424
folate carrier (RFC1) gene, exons 1a, 1c and 1b	<del>(SEQ ID NO:5)</del>	GEN-LUK
431	431A>G	Intron
441	441A>G	Intron
498	498C>T	Intron
579	579G>C	Intron
599	599G>C	Intron
X02308	X02308	188350
synthetase	<del>(SEQ ID NO:6)</del>	GEN-KL
1066	961T>C	3'
1136	1031A>G	3'
1497	1392T>A	3'
D00517	D00517	188350
synthase, promoter	<del>(SEQ ID NO:7)</del>	GEN-LUC
276	276C>T	Intron
321	321T>C	Intron
452	452G>A	Intron
457	457^insC	Intron
491	491C>A	Intron
533	533T>C	Intron
624	624A>C	Intron
639	639A>G	Intron
655	655T>C	Intron

D00596      D00596      188350      GEN-LUD      Homo sapiens  
gene for thymidylate synthase, exons 1, 2, 3, 4, 5, 6, 7,  
complete cds (~~SEQ ID NO:8~~) (SEQ ID NO:3)

701	701A>C	Intron
716	716A>G	Intron
732	732T>C	Intron
1293	1293A>G	Intron
1322	1322C>G	Intron
1379	1379T>C	Intron
1590	1590C>T	Intron
1688	1688C>G	Intron
2401	2401A>G	Intron
2429	2429G>A	Intron
2488	2488C>T	Intron
2594	2594G>T	Intron
2618	2618G>A	Intron
3083	3083G>A	Intron
3125	3125G>A	Intron
3212	3212C>T	Intron
3619	3619T>A	Intron
3635	3635G>A	Intron
4256	4256G>A	Intron
4898	4898A>G	Intron
5006	5006C>T	Intron
5062	5062G>A	Intron
5167	5167G>A	Intron
11069	11069A>G	Intron
11238	11238C>T	Intron
11293	11293T>G	Intron
11422	11422T>C	Intron
11686	11686C>T	Intron
12598	12598T>C	Intron
13171	13171T>C	Intron
13298	13298G>A	Intron
13645	13645T>C	Intron
13751	13751C>A	Intron
13782	13782T>C	Intron
13806	13806T>C	Intron
13813	13813T>C	Intron
14479	14479A>G	Intron
14546	14546^insT	Intron
14585	14585C>T	Intron
14729	14729G>A	Intron
14787	14787C>T	Intron
14795	14795G>A	Intron

15041	15041T>C	Intron
15343	15343G>A	Intron
15449	15449G>A	Intron
15502	15502G>A	Intron
15545	15545C>T	Intron
15589	15589A>G	Intron
15769	15769C>T	3'
15839	15839A>G	3'
16148	16148G>A	3'
16198	16198T>G	3'
16202	16202G>T	Intron
X59618	X59618	180390 GEN-M3 Ribonucleotide
reductase M2	polypeptide	( <del>SEQ ID NO:9</del> )
128	(-67)G>A	5'
189	(-6)T>G	5'
524	330C>G	Silent
1399	1205T>A	3'
1464	1270G>A	3'
1636	1442C>T	3'
1738	1544C>T	3'
2259	2065T>C	3'
S72487	S72487	131222 GEN-3LD Thymidine
phosphorylase, partial		( <del>SEQ ID NO:10</del> )
183	19G>A	D7N
483	319C>T	3'
601	437G>C	3'
1299	1135G>A	3'
M58602	M58602	131222 GEN-LUB Thymidine
phosphorylase, promoter and genomic		( <del>SEQ ID NO:11</del> )
124	124C>T	3'
439	439G>A	3'
1044	1044^insCT	3'
1331	1331G>A	3'
1977	1977G>A	Intron
2149	2149G>A	Intron
2467	2467A>G	Intron
2634	2634C>G	Intron
2975	2975G>A	Intron
3116	3116G>T	Intron
3255	3255A>C	Intron
3344	3344T>C	Intron
4051	4051C>A	Intron
4782	4782G>A	Intron
5022	5022T>C	Intron
5266	5266G>A	Intron

5285	5285C>G	Intron
5438	5438T>A	Intron
5482	5482C>T	Intron
5629	5629G>A	Intron
5648	5648C>T	Intron
5731	5731G>A	Intron
M98045	M98045	136510 GEN-4C3 Homo sapiens
folylpolyglutamate synthetase mRNA, complete cds <del>(SEQ ID NO:12)</del>		
802	732C>T	Silent
1747	1677G>T	3'
1900	1830T>C	3'
U24253	U24253	136510 GEN-LUE Human
folylpolyglutamate synthetase (FPGS) gene, exons 5-11, and		
partial cds <del>(SEQ ID NO:13)</del>		
1424	1424C>A	Intron
1649	1649G>A	Intron
2554	2554A>G	Intron
U24252	U24252	136510 GEN-LUF
Folylpolyglutamate synthetase, promoter and exons 1-4 <del>(SEQ ID</del>		
<del>NO:14)</del>		
263	263A>G	Intron
266	266G>T	Intron
527	527C>G	Intron
1037	1037A>G	5'
1139	1139G>A	Intron
1217	1217C>T	Intron
1647	1647C>T	Intron
1955	1955G>A	Intron
2017	2017G>A	Intron
2037	2037G>A	Intron
2189	2189A>G	Intron
2282	2282C>T	Intron
2309	2309A>G	Intron
U09806	U09806	236250 GEN-4FZ Human
methylenetetrahydrofolate reductase mRNA, partial cds <del>(SEQ ID</del>		
<del>NO:15)</del>		
120	120T>C	Silent
464	464T>G	M155R
519	519C>T	Silent
668	668C>T	A223V
1059	1059T>C	Silent
1289	1289C>A	3'
1308	1308T>C	3'
1784	1784G>A	3'

Applicant : Vincent P. Stanton, Jr.  
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AF061655	AF061655	123920	GEN-LUJ	Cytidine
deaminase, promoter <del>(SEQ ID NO:16)</del>				
575		575T>C	Intron	
648		648T>C	Intron	
771		771G>C	Intron	
883		883G>A	Intron	
941		941^insC	5'	
1051		1051A>C	K27Q	